

**DIVISION 15A - PLUMBING**

**1.1 DESCRIPTION OF THE WORK**

- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
  1. Plumbing fixtures, water heaters, and any other equipment necessary.
  2. Cold and hot water piping and insulation.
  3. DWV piping.
  4. LP gas piping.
  5. Connection of all equipment; drain, vent, water, gas.
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards insofar as they apply.
  1. The National Electrical Code.
  2. 2018 N.C. Building Code: Plumbing, and all applicable category codes.
  3. American Society of Sanitary Engineering Standard 1010.
  4. All local codes and ordinances.
- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications require, the codes shall govern.
- D. The Plumbing Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work.
- E. Obtain all permits, licenses, inspections, etc., required for the work, and pay for the same.

- 1.2 INTENT
  - A. The intent of these specifications and accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Plumbing Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.
- 1.3 COORDINATION
  - A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.
  - B. Locations shown are approximate. The Plumbing Contractor shall refer to the architectural drawings for placement of equipment, fixtures, etc. Where locations are not clear, the Contractor shall obtain the exact locations from the Architect.
  - C. Coordinate all exterior piping connections w/Architect, site contractor/plans. Verify manhole elevations and provide backwater valves as required if flood level rims are below next upstream manhole cover elevation. Fixtures with flood level rims above upstream manhole shall not discharge thru bw valve. Notify engineer of backwater valve requirement, any issue prior to bid.
- 1.4 SHOP DRAWINGS
  - A. Shop drawings shall be submitted for plumbing fixtures and for pipe. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.

- PART 2 - PRODUCTS
- 2.1 FIXTURES
  - A. Each fixture shall be properly supported from the building structure as required to the end effect that all fixtures and accessories will be held rigidly in place. Water pipes supplying the fixtures must also be held rigidly in place.
  - B. Provide loose key angle stops and chrome plated supply pipe water supplies to fixtures.
  - C. All exposed piping traps and accessories for fixtures shall be chrome plated. Provide chrome plated escutcheon plates where pipes enter walls.
  - D. Provide shutoff valves for all sinks, water heaters, toilets, washing machines, refrigerator icemaker, exterior hose bibbs and all other plumbing fixtures.
  - E. Provide trap primers for all floor drains in areas not served by hose bibbs.

**2.2 PIPING**

- A. Drain-Waste-Vent: All DWV piping shall be Schedule 40 PVC-DWV u.o.n., with the following exceptions: Use cast iron piping in all return air plenums, penetrations of rated walls/floors/ceilings, and in areas/walls adjacent to cooking equipment exhaust hoods. Review Arch. and Mech. drawings. ABS or cast iron piping shall be used for drainage/discharge with a temperature greater than 140 deg. F for a minimum distance of 10'-0".
- B. Hot and cold water piping above grade: Type "L" copper w/solder joints (ASTM-B88), hard drawn with wrought copper fittings (ANSI B16.22). PEX piping with copper fittings may be used with owner/tenant approval and as allowed per code. Copper piping shall be used in areas/walls adjacent to cooking equipment exhaust hoods. Review Arch. and Mech. drawings.
- C. Cold water piping below grade: Type "K" copper (ASTM-B88) soft drawn.
- D. LP gas piping shall be black steel pipe with screwed or welded joints. Support all piping as required by code. Use commercial style hangers, pipe strapping will not be allowed. Provide dirtleg, union, shut-off valve and flexible connection to all equipment. Pressure test all piping prior to putting into use. Verify size requirements prior to installation. Coordinate requirements with local gas company prior to submitting bid. Provide all components necessary for a complete operation system. Label piping per code. Paint exterior and exposed gas lines per code and building owner.
- E. Hangers: Use pipe hangers where required on 8-foot centers with saddles to avoid crushing insulation.
- F. Solder: 95/5. Lead free.
- G. Unions: Provide unions where indicated on drawings, in long runs of piping (except drainage) and at equipment to provide convenient disassembly. Provide dielectric unions when connecting copper tubing to equipment and piping made of ferrous materials.

- 2.3 CLEANOUTS
  - A. Hex plugs in rough areas: Recessed plugs with cover plates in exposed locations.
- 2.4 SHOCK ARRESTERS
  - A. Provide shock arresters as required by codes, manufacturer's recommendations and accepted industry standards for quality construction. Provide for all quick closing valves.
- PART 3 - EXECUTION
- 3.1 CONNECTIONS
  - A. This contract includes complete connection of cold water, hot water, drain, vent, and natural gas piping as required. All fittings, valves, accessories, cutoffs, drains, etc., required to complete such connections shall be included.
  - B. The connection to water closets shall be made watertight with gasket and wax ring. Floor flanges shall be caulked into position. Plastic caps shall be provided on the tie down bolts, and shall be secured in place by screwing down on threaded brass washers.
  - C. Where water pipes connect to exposed chrome plated trim, use proper chrome plated escutcheons.
- 3.2 SERVICE ACCESS
  - A. All valves and accessories shall be insulated so that they can be properly serviced. In no case shall the Plumbing Contractor install equipment or other components in situations that do not meet code requirements or manufacturer's requirements. Provide access doors as required to access valves, etc.

**3.3 ROUTING OF PIPING**

- A. Coordinate routing of piping with others, line up work true to or at right angle to adjacent surfaces and in a workmanlike manner. Support all interior piping from building structure by means of hanger or inserts to maintain pitch of lines, to prevent vibration, and to secure piping in place.
- B. Space pipe hangers 8'-0" on center for one inch and smaller pipe, 4'-0" on center for 1-1/4 inch and larger pipe. Provide expansion loops as required.
- C. Pipe hangers for insulated lines shall have suitable saddles to protect insulation.

- 3.4 INSULATION
  - A. All H/W and C/W piping shall be insulated with a min. of 1" inch elastomeric insulation (R=6.5 min.) in unconditioned areas. See NCSBC-Plumbing Sect. 305 for all protection requirements. All H/W piping of circulating systems shall be insulated with 1" insulation per Sect. C404.4 of the NCSBC 2018 Energy Conservation Code.
  - B. Provide pre-fabricated insulation kits for all sink and lavatory exposed drain and supply piping.
- 3.5 INSPECTIONS AND TESTS
  - A. Before being concealed, all water, soil and vent piping shall be tested to determine if they are water- and air-tight.
  - B. Prior to placing into service, entire system shall be tested for leaks in strict accordance with state and local codes.

- 3.6 STERILIZATION OF PIPING
  - A. Sterilize the new water piping thoroughly with a solution containing not less than 50 parts per million of available chlorine, using liquid chlorine, or sodium hydrochloride solution, introduced into the system in an approved manner. The sterilizing solution shall remain in the system for a period of 24 hours. After sterilization, flush the solution from the system with clean water until the residual chlorine content is not greater than 0.2 parts per million, unless otherwise directed.
- 3.7 SERVICE PRESSURE
  - A. Provide approved water-pressure reducing valve (PRV) if service pressure exceeds 80 psi to reduce pressure to 80 psi static or less and as required per NCSBC-Plumbing Sect. 604.8.

- 3.8 DRAINDOWN
  - A. Contractor to provide for complete plumbing system drain down.
- 3.9 CLEAN UP
  - A. During construction, keep the site clear of debris and upon completion, and before final inspection, clean up the premises to remove all evidence of his work. In addition, upon completion of construction, clean, wash, and/or polish all fixtures, equipment and exposed material and leave them bright and clean.
- 3.10 GUARANTEES
  - A. Guarantee all materials and labor included in the plumbing work for a period of one year from date of final acceptance by the Owner.
  - B. Any defects in the system which become evident during the guarantee period shall be corrected without cost to the Owner. This shall include the replacing of defective materials where required, and the repair of damage caused by leaking pipes, etc., and damage to building surfaces caused in making repairs.

**GENERAL NOTES - PLUMBING**

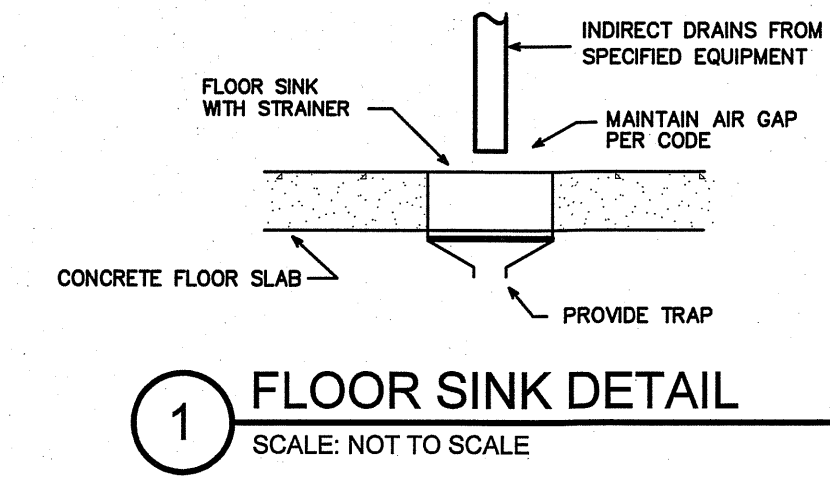
- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
- 2. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE PLUMBING CONTRACTOR (PC) SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC).
- 3. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION AND ALL DISCREPANCIES OR INTERFERENCES BROUGHT TO THE ENGINEER'S ATTENTION.
- 4. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. THE PC SHALL PROVIDE ALL MISC. ITEMS REFERRED TO FOR A COMPLETE SYSTEM REGARDLESS IF NOTED ON THE DRAWINGS OR NOT. FOR DIMENSIONS REFER TO ARCHITECTURAL PLANS.
- 5. THE GC SHALL PROVIDE ALL WALL, FLOOR AND ROOF OPENINGS OF THE SIZE AND LOCATION REQUIRED BY THE PC AND SHALL BE RESPONSIBLE FOR PAINTING AND FLOOR FINISHES. THE PC SHALL PROPERLY SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEON PLATES AT ALL FINISHED LOCATIONS.
- 6. ALL NEW WATER PIPING SHALL BE INSTALLED TIGHT TO STRUCTURE, ADEQUATELY SUPPORTED AND PROTECTED AND PROPERLY PITCHED TO ALLOW TOTAL DRAINAGE.
- 7. ALL WATER PIPING SHALL BE HYDROSTATICALLY TESTED FOR A MINIMUM OF 15 MINUTES AT A MINIMUM OF 100 PSIG BEFORE COVERING AND ALL LEAKS CORRECTED. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
- 8. PROVIDE MIN. 18" SHOCK ABSORBERS WITH STOPS ON ALL HOT AND COLD WATER FIXTURE RUNS AS REQUIRED BY CODE.
- 9. VENT LINES SHALL SLOPE UP TO ALL STACKS AND TERMINATE A MIN. OF 12" ABOVE ROOF LINE.
- 10. PROVIDE CUT SHEETS ON ALL PLUMBING/GAS FIXTURES FOR ARCHITECT AND OWNER APPROVAL PRIOR TO ORDERING ANY FIXTURES.
- 11. PROVIDE/VERIFY HIGH TEMPERATURE HOT WATER (HTHW) AT 140 DEGREES (MAX.) F. PROVIDE/VERIFY LOW TEMPERATURE HOT WATER (LTHW) AT 110 DEGREES (MAX.) F. VERIFY LTHW FROM ALL LAVATORY FAUCETS, ANY OTHER REQUIRED FIXTURES (VERIFY). PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE (TMV) WHERE REQUIRED, ASSE 1017 TMV WHERE REQUIRED, AND PER CODE WHETHER OR NOT SHOWN ON PLANS.
- 12. PROVIDE CLEANOUTS AS REQUIRED BY CODE. NOT MORE THAN 100 FEET FOR 4" DRAIN.
- 13. PROPERLY SEAL ALL PIPING PENETRATIONS PER APPLICABLE PENETRATION SYSTEM DETAIL (THIS SHEET) THROUGH FIRE BARRIER WALLS/FLOORS/CEILINGS. PROVIDE CAST IRON PIPING FOR ALL DWV PIPING THROUGH FIRE BARRIERS.

**SYMBOL LEGEND - PLUMBING**

SYMBOL	DESCRIPTION (U.O.N.)
---	SANITARY WASTE PIPING (W)
---	GREASE WASTE PIPING (GW)
---	VENT PIPING (V)
---	COLD WATER PIPING (CW)
---	HOT WATER PIPING (HW)
---	HIGH TEMPERATURE HW PIPING (HTHW) 140 DEG. F
---	LOW TEMPERATURE HW PIPING (LTHW) 110 DEG. F
---	LP GAS PIPING (G)
---	HW RETURN PIPING (HWR)
---	CHECK VALVE
---	BALANCING VALVE
---	CIRCULATION PUMP
---	SHUT-OFF VALVE
---	DIELECTRIC UNION
---	CLEANOUT FINISH FLOOR
---	WALL/HORIZONTAL CLEANOUT
---	CLEANOUT FINISH GRADE
---	VENT THRU ROOF (VTR)
A.F.F.	ABOVE FINISHED FLOOR
A.A.V.	AIR ADMITTANCE VALVE
U.O.N.	UNLESS OTHERWISE NOTED

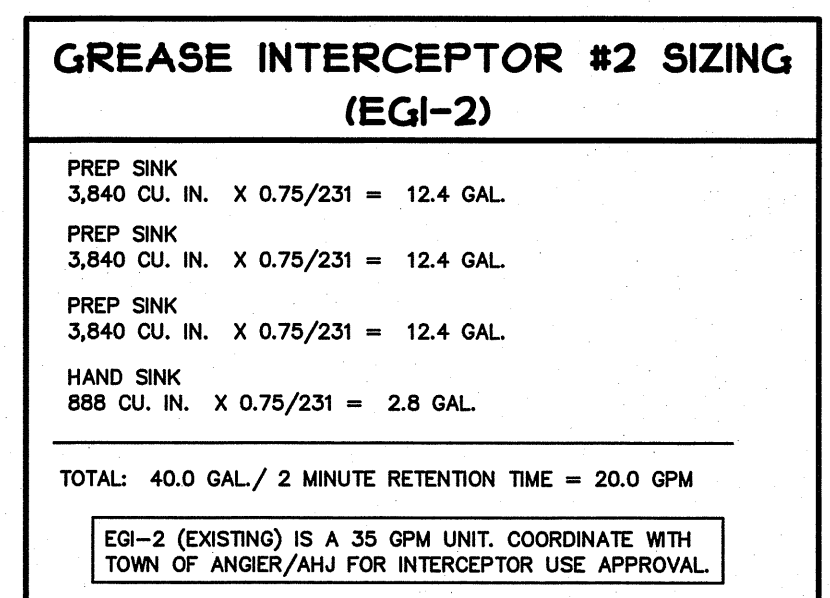
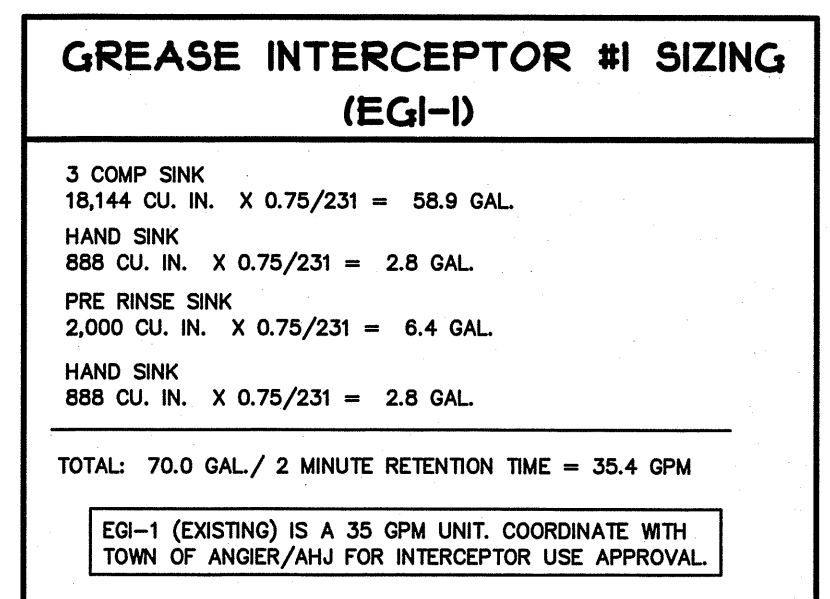
**LOAD SUMMARY - PLUMBING**

WASTE DEMAND (FD)	WATER DEMAND (FD)	WATER DEMAND (GPM)
48.0	51.0	32.3

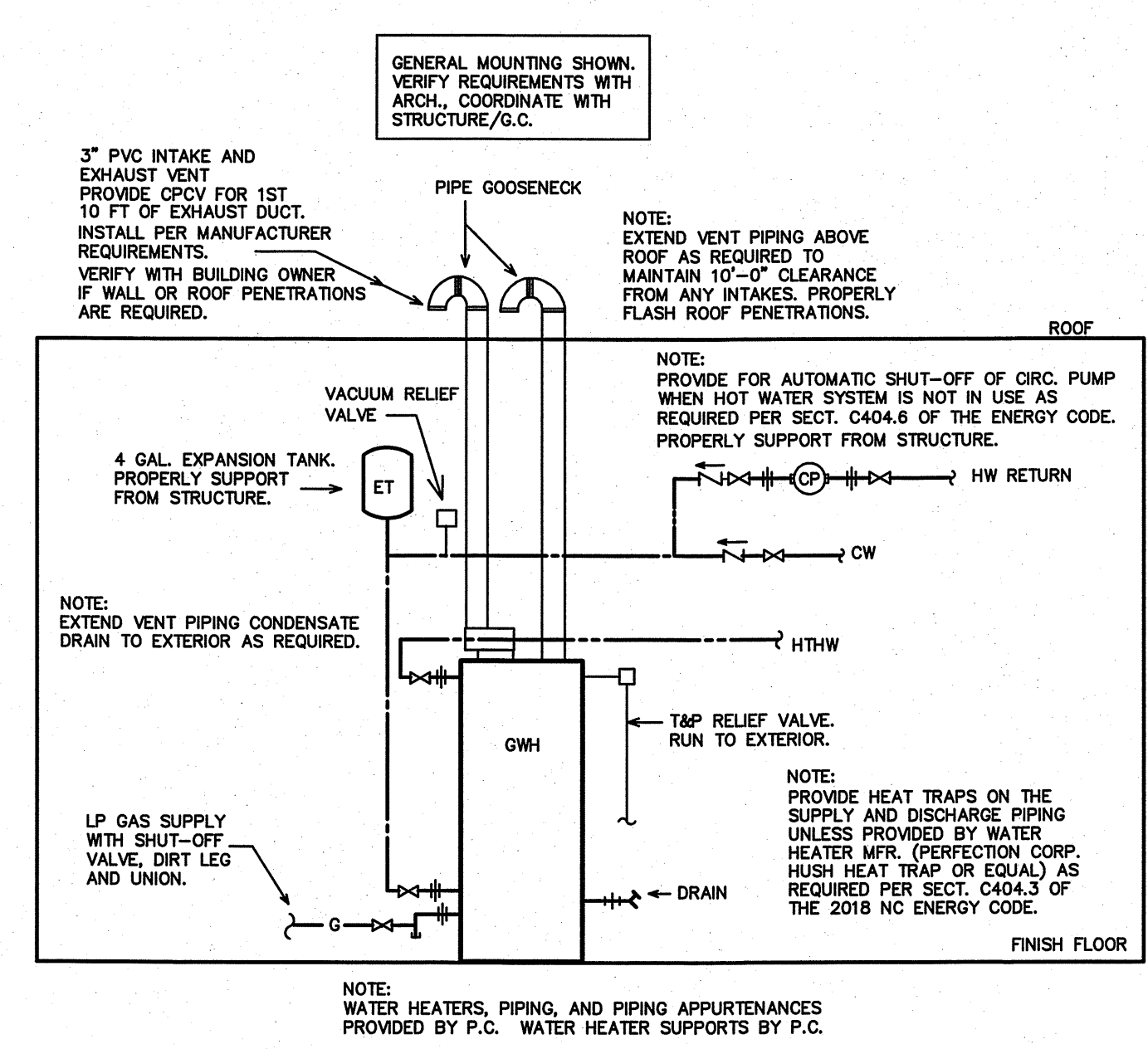
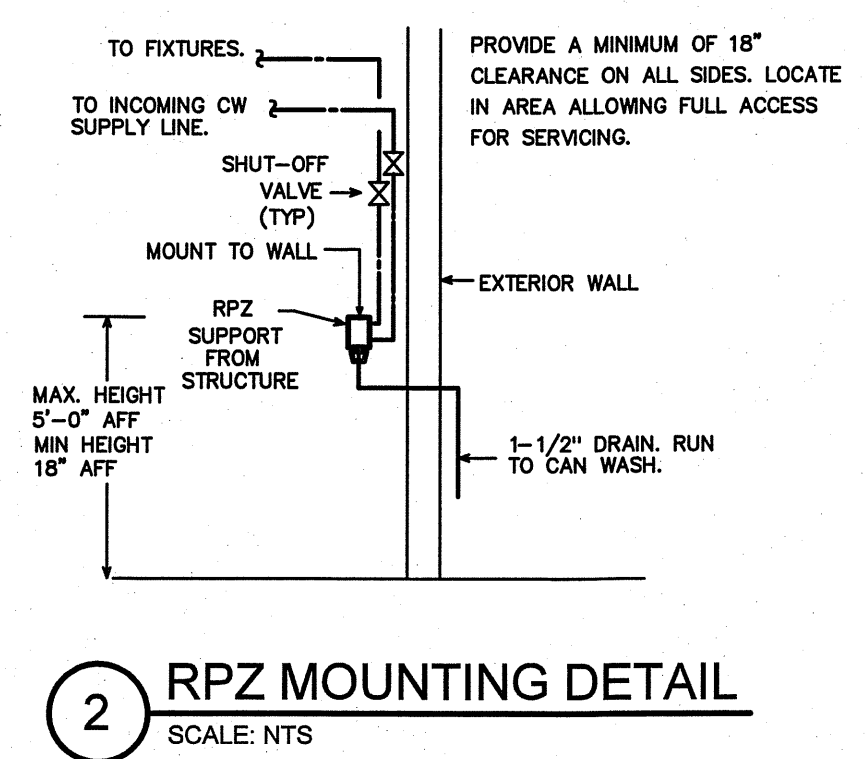


**FIXTURE SCHEDULE - PLUMBING**

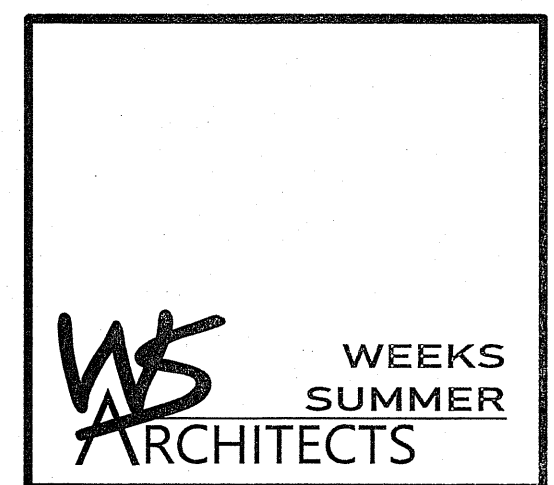
- EG1-1 = EXISTING IN-GROUND GREASE INTERCEPTOR #1: MIFAB MI-G-6-PL 35 GPM FLOW RATE.
- EG1-2 = EXISTING IN-GROUND GREASE INTERCEPTOR #2: MIFAB MI-G-6-PL 35 GPM FLOW RATE.
- CP\* CIRCULATING PUMP  
TACO MODEL 110, 115 VOLT, 1/12 HP. SECURELY SUPPORT FROM STRUCTURE. PROVIDE AQUASTAT, TIMER, CHECK VALVES AS REQUIRED.
- ET\* EXPANSION TANK  
AMTROL MODEL ST-12, 4.4 GALLON, STEEL CONSTRUCTION, NON-ASME RATED.
- FS-1\* FLOOR SINK #1-4  
ZURN PVC FLOOR SINK MODEL FD-2370-PV3, 12" X 12", 1/2 GRATE, WITH 3" PIPE CONNECTION. VERIFY GRATE REQUIREMENTS.
- FS-5\* FLOOR SINK #5  
ZURN CAST IRON A.R.C. FLOOR SINK MODEL FD-2377-NH3, 12" X 12", 1/2 GRATE, WITH 3" PIPE CONNECTION. VERIFY GRATE REQUIREMENTS.
- FS-6\* FLOOR SINK #6-9  
ZURN PVC FLOOR SINK MODEL FD-2370-PV2, 12" X 12", 1/2 GRATE, WITH 2" PIPE CONNECTION. VERIFY GRATE REQUIREMENTS.
- GWH\* LP (PROPANE) GAS WATER HEATER  
AO SMITH MODEL BTH-1994, DIRECT VENT, 199,900 BTUH, 100 GALLON, 1-1/2" INLET AND OUTLET, 235 GPH RECOVERY AT 100 DEGREE RISE. PROVIDE PVC EXHAUST AND INTAKE VENTS PER MANUFACTURERS RECOMMENDATION. VERIFY INSTALLATION CLEARANCES PRIOR TO ORDERING.
- LAV\* LAVATORY (WALL MOUNTED)  
KOHLER CHESAPEAKE LAVATORY, K-1722, WHITE COLOR, ADA COMPLIANT. PROVIDE SLOAN OPTIMA #EBF-187 BATTERY OPERATED SENSOR FAUCET. PROVIDE DRAIN WITH GRID STRAINER, P-TRAP AND SHUT-OFF VALVES.
- RPZ\* 1" REDUCED PRESSURE BACKFLOW PREVENTER  
WATTS MODEL #F009M30T, 1" REDUCED PRESSURE BACKFLOW PREVENTER, 'LEAD FREE' CONSTRUCTION.
- TMV\* THERMOSTATIC MIXING VALVE (ASSE 1070)  
WATTS LFUSO-B 'LEAD FREE' GUARDIAN. INSTALL IN MAINTENANCE ACCESSIBLE LOCATION BELOW LAV/SINK OR ABOVE CEILING. SET HW OUTFLOW TO SPECIFIED TEMPERATURE (110 DEG. F MAX.) LTHW.
- WC\* WATER CLOSET (ADA FLUSH TANK)  
KOHLER HIGHLINE WATER CLOSET, K-3979, ADA COMPLIANT 1.6 GPF. PROVIDE PROPER OPEN FRONT ADA SEAT, K-7637 SUPPLY AND STOP, WAX SEAL, CLOSET BOLT KIT. PROVIDE MODEL WITH FLUSH CONTROL ON SIDE OPPOSITE GRAB BAR.



AMOUNT	ITEM	GPH
1	3 COMP. SINK	58.9
1	PRE-RINSE SINK	45.0
3	PREP SINK	15.0
5	HAND SINK	25.0
3	LAVATORY	15.0
1	CAN WASH	5.0
1	DISHMACHINE	38.8
TOTAL		202.7 GPH

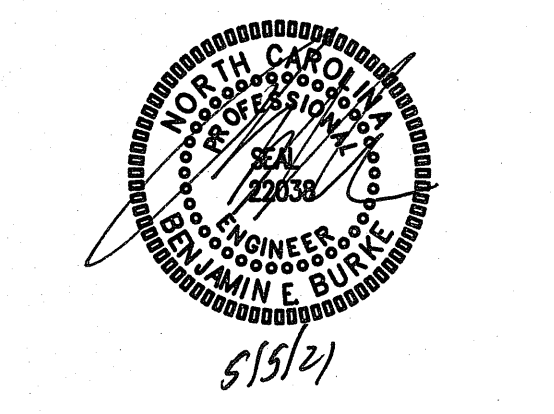


**3 GWH DETAIL**  
SCALE: NOT TO SCALE



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PROJECT TITLE  
**MI CUNCUN**

115 S. RALEIGH ST.  
ANGIER, NORTH CAROLINA

PROJECT NO.  
**2006r**

DRAWING TITLE  
**PLUMBING SPECIFICATIONS**

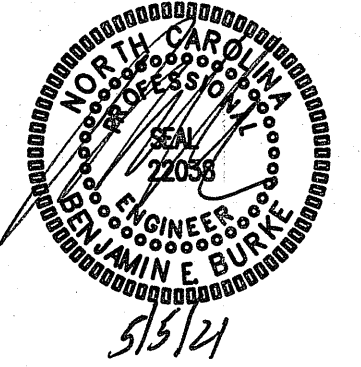
**P1**

PLOT DATE 12/21/2020

PLAN REVISIONS 5/04/2021

\* OR APPROVED EQUAL. SUBMIT ALL ITEMS FOR APPROVAL BY TENANT AND ARCHITECT PRIOR TO ORDERING.  
ALL OTHER PLUMBING FIXTURES SHOWN ARE PROVIDED BY THE TENANT AND INSTALLED BY THE PLUMBING CONTRACTOR. SEE PLANS FOR NUMBER AND LOCATION. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT SERVED.

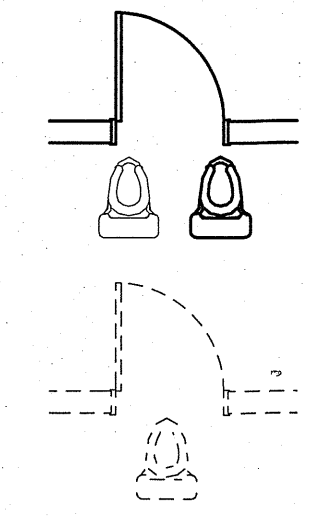
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NOTE:  
THE EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM FIELD INVESTIGATION AND PREVIOUS PERMIT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

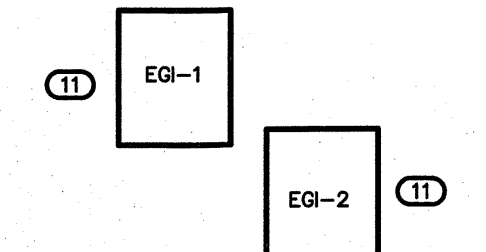
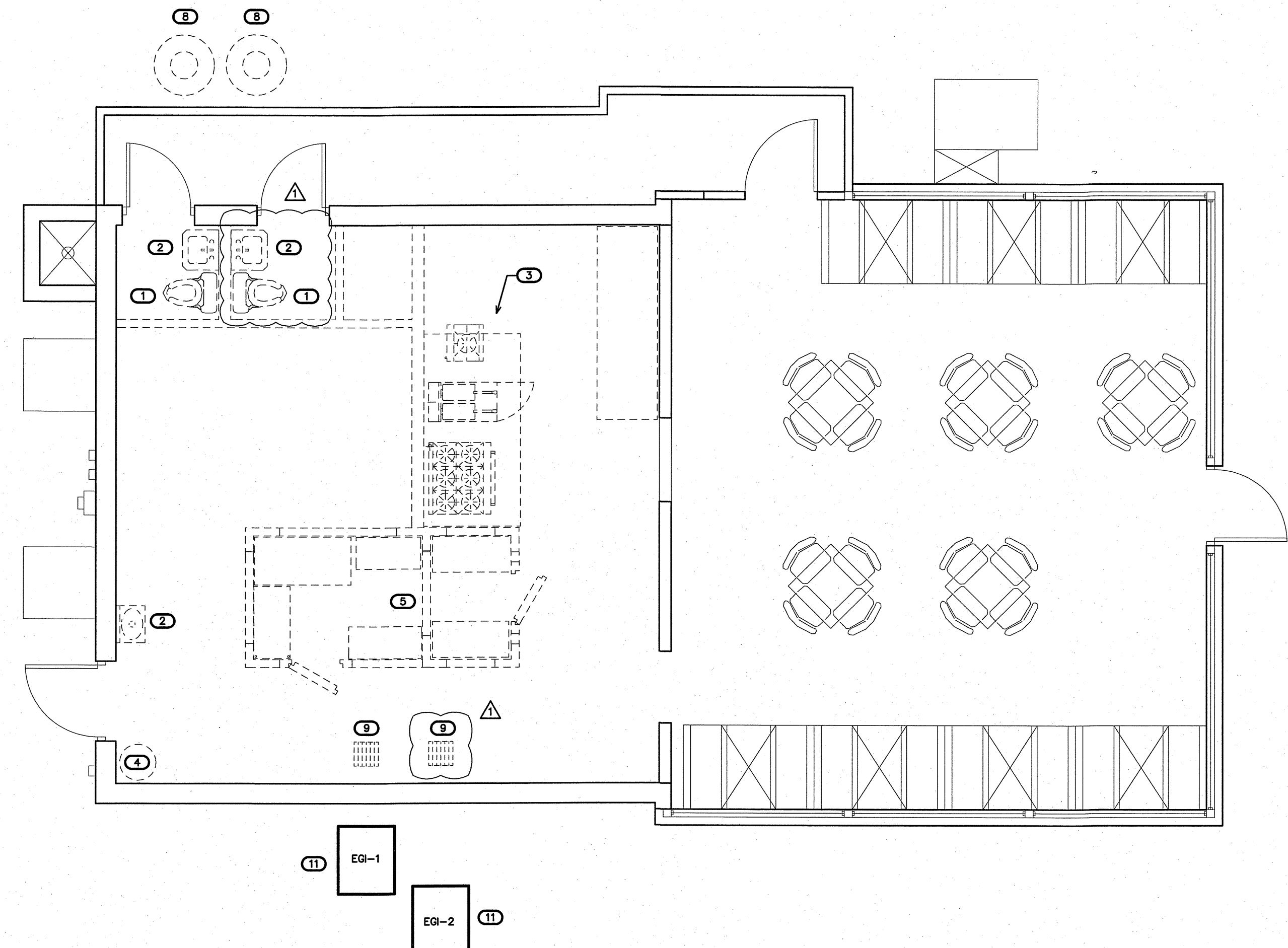
THE SCOPE OF DEMOLITION IS AS FOLLOWS--  
REMOVE EXISTING PLUMBING/NATURAL GAS FIXTURES (VERIFY) IN EXISTING AREA AS SHOWN/NOTED. PROVIDE CLEANOUTS ON UNUSED DRAIN LINES AT FINAL FINISHES TO PREVENT DEAD-ENDS PER CODE. REMOVE UNUSED GAS/NATURAL GAS LINES TO ABOVE CEILING AND CAP AT MAINS. REMOVE ALL UNUSED CW & HW LINES/STUB-OUTS, ETC., AND CAP LINES BEHIND FINAL FINISHES. REMOVE AND REPLACE ALL CONCRETE, WALL BOARD AND CEILING AS REQUIRED TO LOCATE EXISTING LINES/INSTALL NEW LINES. COORDINATE WITH PLANS FOR LINES TO BE REUSED. ALL EXISTING GAS, DWV AND SUPPLY ITEMS/LINES MAY NOT BE SHOWN.

THE PLUMBING CONTRACTOR SHALL LOCATE ALL EXISTING LINES PRIOR TO START OF WORK. UTILIZE DYES AND/OR CAMERAS TO TRACE BOTH THE SANITARY SEWER AND GREASE WASTE LINES AS NEEDED. PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW. VERIFY AVAILABLE DEPTH OF EXISTING DRAIN LINES PRIOR TO START OF WORK.



NOTE:  
ALL PLUMBING/LP GAS FIXTURES (PIPING, FLOOR SINKS, ETC.) TO REMAIN OR TO BE REMOVED MAY NOT BE SHOWN. COORDINATE WITH DEMO/NEW PLANS, TENANT FIELD CONDITIONS. VERIFY ITEMS TO BE REMOVED.

- KEY NOTES FOR SHEET P2
- 1 WATER CLOSET TO BE REMOVED.
  - 2 LAVATORY/SINK TO BE REMOVED.
  - 3 LP GAS COOKLINE (EQUIPMENT, ALL PIPING TO/FROM TANKS, ETC.) TO BE REMOVED.
  - 4 ELECTRIC WATER HEATER TO BE REMOVED.
  - 5 WALK-IN COOLERS TO BE REMOVED.
  - 6 NOT USED
  - 7 NOT USED
  - 8 LP GAS TANK TO BE RELOCATED.
  - 9 FLOOR SINK TO BE REMOVED.
  - 10 NOT USED
  - 11 GREASE INTERCEPTOR TO REMAIN.



1 DEMO PLAN  
SCALE: 1/4" = 1'-0"

PROJECT TITLE  
**MI CANCUN**

115 S. RALEIGH ST.  
ANGIER, NORTH CAROLINA

PROJECT NO.  
**2006r**  
DRAWING TITLE  
**DEMO PLAN**

**P2**

PLOT DATE 12/21/2020  
PLAN REVISIONS 5/04/2021

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( VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN )

		EQUIPMENT SCHEDULE						EQUIPMENT SCHEDULE					
ITEM	QUAN	DESCRIPTION	UTILITY CONNECTIONS				ITEM	QUAN	DESCRIPTION	UTILITY CONNECTIONS			
			WASTE	HW	CW	GAS (BTUH)				WASTE	HW	CW	GAS (BTUH)
1	1	ICE MACHINE W/ BIN	1/2"-3/4"	-	1/2"	34	1	60" REFRIGERATED CHEF BASE	-	-	-	90,000	
2	1	1-DOOR WORKTOP REFRIGERATOR	-	-	-	35	1	STOCK POT BURNER (GAS)	-	-	-	40,000	
3	1	MILLWORK BACK COUNTERTOP	-	-	-	36	1	36" WALLMOUNT BROILER (GAS)	-	-	-	227,000	
4	1	MARGARITA MACHINE	-	-	-	37	1	6-BURNER RANGE & OVEN (GAS)	-	-	-	115,000	
5	1	SOILED DISH RACK STORAGE	1-3/8"	-	-	38	1	DEEP FRYER (GAS)	-	-	-	150,000	
6	1	DEEP WELL GLASS FROSTER	-	-	-	39	1	1-DOOR WORKTOP FREEZER	-	-	-	-	
7	LOT	WALLMOUNT CLEAN GLASS SHELVING	-	-	-	40	1	SPLASHGUARD	-	-	-	-	
8	1	POINT OF SALE	-	-	-	41	1	DEEP FRYER (GAS)	-	-	-	-	
9	1	BAR REFRIGERATION	-	-	-	42	1	HIGH TEMP DISH MACHINE W/VAPOR VENT	2"	1/2"	3/8"	△	
10	1	S/S 24" ICE WELL W/ COLD PLATE	1-1/2"	-	-	43	1	S/S 48" CLEAN DISHTABLE	-	-	-	-	
11	1	S/S BAR DUMP SINK	1-1/2"	1/2"	1/2"	44	2	S/S WALLMOUNT BACK STORAGE	-	-	-	-	
12	1	S/S BAR HAND SINK	1-1/2"	1/2"	1/2"	45	1	SOILED DISHTABLE W/PRE-RINSE SINK	1-1/2"	1/2"	1/2"	△	
13	1	PASS-THRU SHELF	-	-	-	46	1	S/S SINKING RACK	-	-	-	-	
14	1	MILLWORK COUNTERTOP W/BASE CABINETS	-	-	-	47	2	S/S WALLMOUNT HAND SINK W/ SPLASHGUARDS	1-1/2"	1/2"	1/2"	△	
15	1	CLEAN GLASS RACK STORAGE UNIT	1"	-	-	48	1	S/S FREEZER/DRINK SHELVING UNIT	-	-	-	-	
16	2	TEA BREWER / URN	-	-	1/4"	49	3	S/S PREP SINK	1-1/2"	1/2"	1/2"	△	
17	1	COFFEE BREWER	-	-	1/4"	50	1	S/S 18" X 84" WALLMOUNT SHELF	-	-	-	-	
18	1	SODA DISPENSER W/ ICE MACHINE	3/4"	-	3/8"	51	1	S/S 42" X 84" WALLMOUNT SHELF	-	-	-	-	
19	1	S/S DROP-IN HAND SINK W/ SPLASHGUARDS	1-1/2"	1/2"	1/2"	52	1	S/S 3-COMPARTMENT SINK	1-1/2"	1/2"	1/2"	△	
20	1	BAG-IN-BOX UNIT W/ CABONATOR	-	-	-	53	1	S/S 18" X 72" WALLMOUNT SHELF W/ PETRACOR	-	-	-	-	
21	1	REFRIGERATED PREP TABLE	-	-	-	54	1	2-DOOR REACH-IN REFRIGERATOR	-	-	-	-	
22	1	CARBON DIOXIDE TANK	-	-	-	55	1	EXTERIOR MOUNT FLY FAN	-	-	-	-	
23	1	FILLER TABLE W/SHELF	-	-	-	56	1	WATER HEATER IN EXTERIOR ENCLOSURE	1"	1-1/2"	1-1/2"	199,900	
24	1	5-WELL HOT HOLDING TABLE	1"	-	-	57	1	EXTERIOR WALK-IN COOLER / FREEZER COMBO	-	-	-	-	
25	1	60" REFRIGERATED PREP TABLE	-	-	-	58	LOT	WALK-IN SHELVING	-	-	-	-	
26	1	CHIP WARMER	-	-	-	59	1	CAN WASH IN EXTERIOR ENCLOSURE (EXISTING) (EXSTG.)	1/2"	1/2"	-	-	
27	1	1-DOOR UNDERCOUNTER REFRIGERATOR	-	-	-	60	1	EXTERIOR STEP-IN KEG COOLER	-	-	-	-	
28	2	S/S 16" X 36" WALLMOUNT SHELF	-	-	-	61	1	DRAFT BEER TOWER W/SPILL/RINSE DRIP TRAY	3/4"	-	1/2"	-	
29	1	S/S 16" X 60" WALLMOUNT SHELF	-	-	-	62	1	DRAFT BEER REF. LINE GLYCOL CHILLER	-	-	-	-	
30	1	S/S PASS-THRU SHELF	-	-	-	63	1	WATERLESS GREASER/W/FLAMM	-	-	-	-	
31	1	S/S 16FT EXHAUST HOOD W/ 1FT LH FIRE CABINET	-	-	-	64	1	48" WORKTOP REFRIGERATOR	-	-	-	-	
32	1	48" FLAT GRIDDLE (GAS)	-	-	-	65	1	HOT HOLDING CABINET	-	-	-	△	
33a	1	12" RADIANT GRILL (GAS)	-	-	-	66	LOT	TRASH RECEPTACLE	-	-	-	-	
33b	1	12" RADIANT GRILL (GAS)	-	-	-								

\* PROVIDE BACKFLOW PREVENTER PER NCSBC-PLUMBING SECT. 608.3 (EX: ASSE 1024 (WATTS SERIES 7 OR EQUAL), ASSE 1022 (WATTS SERIES SD-3 OR EQUAL), ETC.), WHERE REQUIRED IF NOT AN INTEGRAL PART OF THE EQUIPMENT.

INDIRECT CONNECTION SCHEDULE \*

FLOOR SINK # (FS-#)	SIZE
FLOOR SINK #1 (FS-1)	SIZE
(52) 3 COMP. SINK **	1-1/2"
FLOOR SINK #2 (FS-2)	SIZE
(45) PRE RINSE SINK	1-1/2"
FLOOR SINK #3 (FS-3)	SIZE
(49) PREP SINK	1-1/2"
FLOOR SINK #4 (FS-4)	SIZE
(49) PREP SINK (QTY OF 2)	1-1/2"
FLOOR SINK #5 (FS-5)	SIZE
(42) DISH MACHINE	2"
FLOOR SINK #6 (FS-6)	SIZE
(25) HOT TABLE	1"
FLOOR SINK #7 (FS-7)	SIZE
(1) ICE MACHINE/BIN	1/2", 3/4"
(15) GLASS RACK	1-3/8"
(18) SODA DISPENSER	3/4"
(19) HAND SINK	1-1/2"
FLOOR SINK #8 (FS-8)	SIZE
(5) GLASS RACK	1-3/8"
(10) ICE WELL	1-1/2"
FLOOR SINK #9 (FS-9)	SIZE
(61) BEER TOWER DRIP TRAY	3/4"
EXISTING CAN WASH	SIZE
RPZ	1-1/2"

\* VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN.  
\*\* PROVIDE SEPARATE DRAIN FROM EACH WELL BASIN OF 3 COMP. SINK.

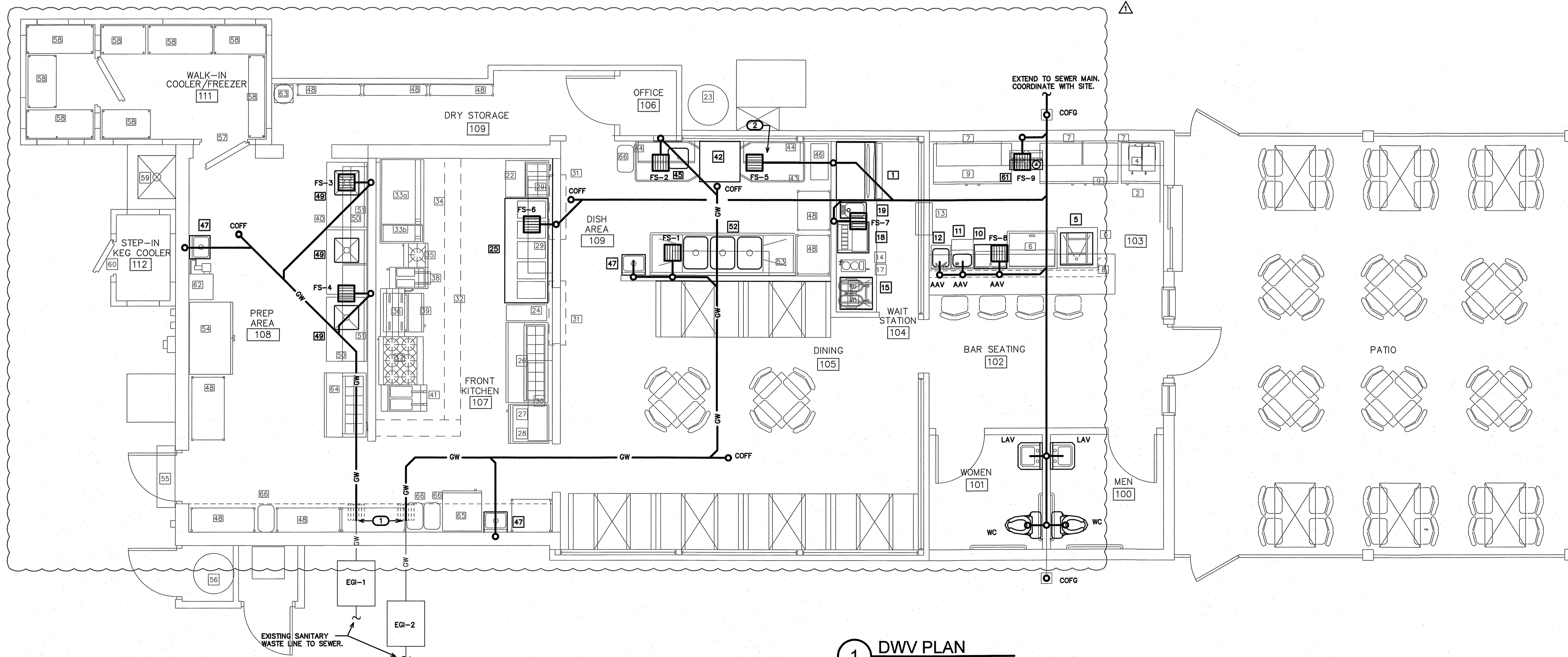
NOTE: THE EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM FIELD INVESTIGATION. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.  
REMOVE AND REPLACE ALL CONCRETE, WALL BOARD AND CEILING AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES.  
THE PLUMBING CONTRACTOR SHALL LOCATE ALL EXISTING LINES PRIOR TO START OF WORK. UTILIZE DYES AND/OR CAMERAS TO TRACE BOTH THE SANITARY SEWER AND GREASE WASTE LINES AS NEEDED. PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW. VERIFY AVAILABLE DEPTH OF EXISTING DRAIN LINES PRIOR TO START OF WORK.

NOTE: COORDINATE EXACT LOCATIONS OF FLOOR SINKS WITH TENANT/EQUIPMENT SERVED PRIOR TO ROUGH-IN. MINIMUM CLEARANCES FOR ALL EXPOSED INDIRECT DRAIN LINES ARE 4" A.F.F., 1" FROM WALL, 1" FROM OTHERS. ALL INDIRECT WASTE PIPING FROM EQUIPMENT EXCEEDING 30" IN DEVELOPED LENGTH HORIZONTALLY, OR 54" IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED. PROVIDE DRAIN PIPING FOR SO THAT EACH WELL OF A MULTI-COMPARTMENT SINK DISCHARGES INDEPENDENTLY TO A WASTE RECEPTOR PER NCSBC-PLUMBING SECT. 602.1.1.

NOTE: DWV PIPING SHALL NOT BE UNNECESSARILY EXPOSED. EXPOSED LINES SHALL BE INSTALLED SO THEY DO NOT OBSTRUCT OR PREVENT CLEANING OF THE FLOORS, WALLS, OR CEILING. EXPOSED HORIZONTAL LINES MAY NOT BE INSTALLED ON THE FLOOR. PROVIDE ANY STAND-OFFS AS REQUIRED PER HEALTH DEPARTMENT. RUN LINES TIGHT AND CONCEALED UNDER BAR/EQUIPMENT OR IN HALF WALL AS REQUIRED. PROVIDE AIR INTAKE VENT/GRILLE FOR AAV'S WHERE REQUIRED.

KEY NOTES FOR SHEET P3

- CONNECT TO EXISTING 3" (MIN.) GREASE WASTE MAIN IN AREA OF REMOVED FLOOR SINK. VERIFY LOCATION.
- PROVIDE CAST IRON MODEL FS-5 AND CAST IRON OR ABS PIPING FOR MINIMUM 10'-0" AS DISH MACHINE DISCHARGE. TEMPERATURE IS TO BE ABOVE 140 DEG. (F). VERIFY WITH OWNER/EQUIPMENT.

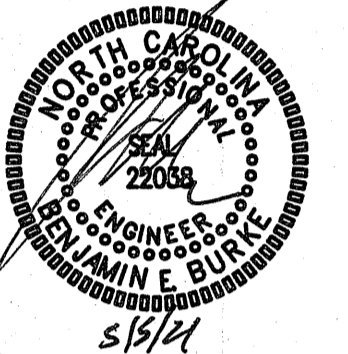


1 DWV PLAN  
SCALE: 1/4" = 1'-0"



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MI CUNCUN  
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ANGIER, NORTH CAROLINA

PROJECT NO.  
2006r  
DRAWING TITLE  
DWV PLAN

P3

PLOT DATE 12/21/2020  
PLAN REVISIONS 5/04/2021

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( VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN )

ITEM		QUAN	DESCRIPTION	UTILITY CONNECTIONS				ITEM	QUAN	DESCRIPTION	UTILITY CONNECTIONS			
				WASTE	HW	CW	GAS (BTUH)				WASTE	HW	CW	GAS (BTUH)
1	1	ICE MACHINE W/ BIN	1/2", 3/4"	-	-	1/2"	*	34	1	60" REFRIGERATED CHEF BASE	-	-	-	-
2	1	1-DOOR WORKTOP REFRIGERATOR						35	1	STOCK POT BURNER (GAS)	-	-	-	90,000
3	1	MILLWORK BACK COUNTERTOP						36	1	36" WALLMOUNT BROILER (GAS)	-	-	-	40,000
4	1	MARGARITA MACHINE						37	1	6-BURNER RANGE & OVEN (GAS)	-	-	-	227,000
5	1	SOLED DISH RACK STORAGE	1-3/8"	-	-	-	-	38	1	DEEP FRYER (GAS)	-	-	-	115,000
6	1	DEEP WELL GLASS FROSTER						39	1	1-DOOR WORKTOP FREEZER				
7	LOT	WALLMOUNT CLEAN GLASS SHELVING						40	1	SPLASHGUARD				
8	1	POINT OF SALE						41	1	DEEP FRYER (GAS)				150,000
9	1	BAR REFRIGERATION						42	1	HIGH TEMP DISHWASHER W/VAPOR VENT	2"	1/2"	3/8"	
10	1	S/S 24" ICE WELL W/ COLD PLATE	1-1/2"	-	-	-	-	43	1	S/S 48" CLEAN DISHTABLE				
11	1	S/S BAR DUMP SINK	1-1/2"	1/2"	1/2"			44	2	S/S WALLMOUNT BACK STORAGE				
12	1	S/S BAR HAND SINK	1-1/2"	1/2"	1/2"			45	1	SOLED DISHTABLE W/PRE-RINSE SINK	1-1/2"	1/2"	1/2"	
13	1	PASS-THRU SHELF						46	1	S/S BATHING RACK				
14	1	MILLWORK COUNTERTOP W/ BASE CABINETS						47	2	S/S WALLMOUNT HAND SINK W/ SPLASHGUARDS	1-1/2"	1/2"	1/2"	
15	1	CLEAN GLASS RACK STORAGE UNIT	1"	-	-	-	-	48	1	S/S PREP/STAMMING SHELVING UNIT				
16	2	TEA BREWER / URN		-	-	1/4"	*	49	3	S/S PREP SINK	1-1/2"	1/2"	1/2"	
17	1	COFFEE BREWER		-	-	1/4"	*	50	1	S/S 18" X 84" WALLMOUNT SHELF				
18	1	SODA DISPENSER W/ ICE MACHINE	3/4"	-	-	3/8"	*	51	1	S/S 12" X 84" WALLMOUNT SHELF				
19	1	S/S DROP-IN HAND SINK W/ SPLASHGUARDS	1-1/2"	1/2"	1/2"			52	1	S/S 3-COMPARTMENT SINK	1-1/2"	1/2"	1/2"	
20	1	BAG-IN-BOX UNIT W/ CABONATOR						53	1	S/S 15" X 72" REFRIGERATION SHELF W/ PIPING				
22	1	REFRIGERATED PREP TABLE						54	1	2-DOOR REACH-IN REFRIGERATOR				
23	1	CARBON DIOXIDE TANK						55	1	EXTERIOR MOUNT FLY FAN				
24	1	FILLER TABLE W/SHELF						56	1	WATER HEATER IN EXTERIOR ENCLOSURE	1"	1-1/2"	1-1/2"	199,900
25	1	5-WELL HOT HOLDING TABLE	1"	-	-	-	25,000	57	1	EXTERIOR WALK-IN COOLER / FREEZER COMBO				
26	1	60" REFRIGERATED PREP TABLE						58	LOT	WALK-IN SHELVING				
27	1	CHIP WARMER						59	1	CAN WASH IN EXTERIOR ENCLOSURE (EXISTING)	(EXISTG.)	1/2"	1/2"	
28	1	1-DOOR UNDERCOUNTER REFRIGERATOR						60	1	EXTERIOR STEP-IN KEG COOLER				
29	2	S/S 16" X 36" WALLMOUNT SHELF						61	1	DRAFT BEER TOWER W/SPILL/RINSE DRIP TRAY	3/4"	-	1/2"	*
30	1	S/S 16" X 60" WALLMOUNT SHELF						62	1	DRAFT BEER REF. LINE GLYCOL CHILLER				
31	1	S/S PASS-THRU SHELF						63	1	REFRIGERATED BEVERAGE W/ TANK				
32	1	S/S 16FT EXHAUST HOOD W/ 1FT LH FIRE CABINET						64	1	48" WORKTOP REFRIGERATOR				
33a	1	48" FLAT GRIDDLE (GAS)					120,000	65	1	HOT HOLDING CABINET				
33b	1	12" RADIANT GRILL (GAS)					30,000	66	LOT	TRASH RECEPTACLE				

\* PROVIDE BACKFLOW PREVENTER PER NCSBC-PLUMBING SECT. 608.3 (EX: ASSE 1024 (WATTS SERIES 7 OR EQUAL), ASSE 1022 (WATTS SERIES SD-3 OR EQUAL), ETC.), WHERE REQUIRED IF NOT AN INTEGRAL PART OF THE EQUIPMENT.

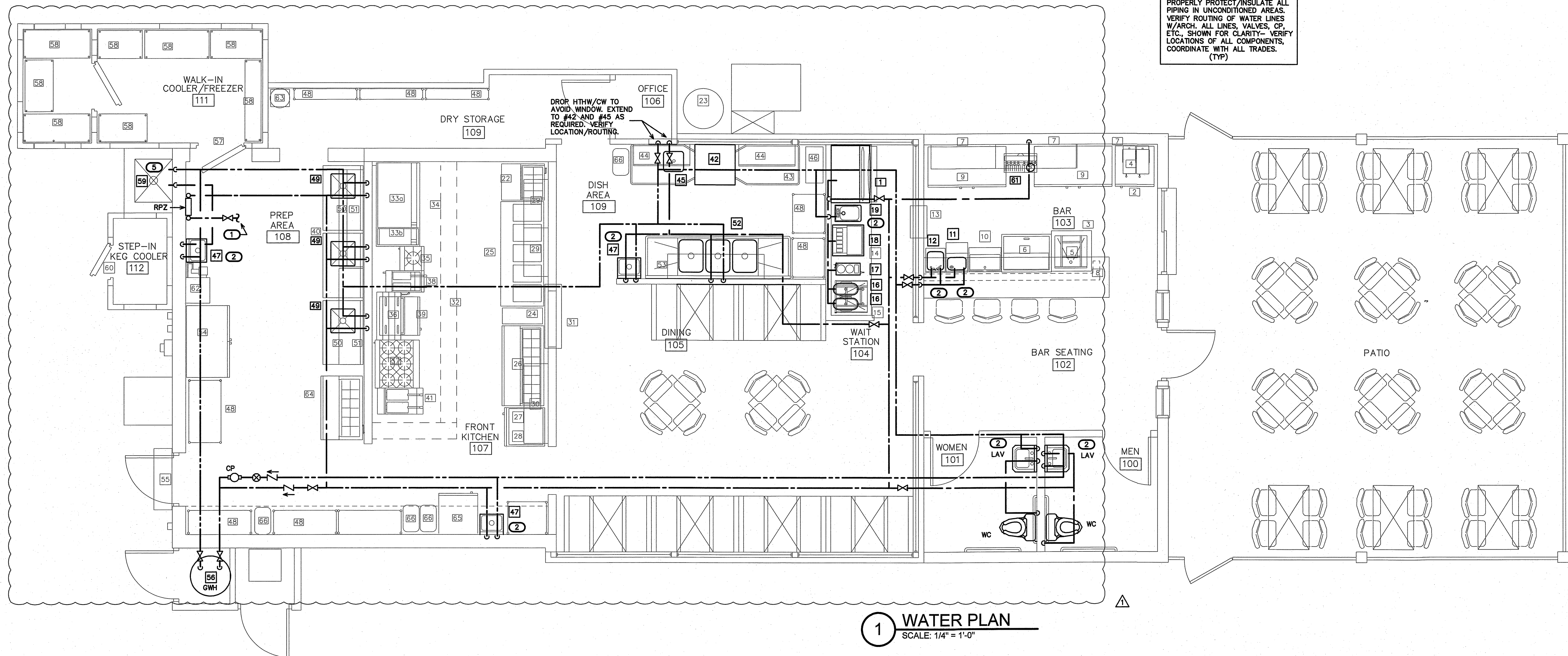
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REMOVE AND REPLACE ALL CONCRETE, WALL BOARD AND CEILINGS AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES.

NOTE:  
VERIFY ANY EXTERIOR HOSE BIBBS TO REMAIN (IF EXISTING). REPLACE WITH NEW UNIT IF REQUIRED. RE-SUPPLY ANY HOSE BIBBS (NOT SHOWN) AFTER NEW RPZ. RE-PIPE AS NEEDED.

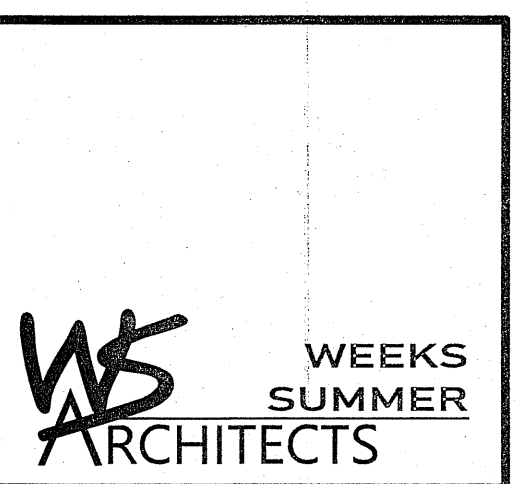
NOTE:  
WATER LINES MAY NOT BE UNNECESSARILY EXPOSED. EXPOSED LINES SHALL BE INSTALLED SO THEY DO NOT OBSTRUCT OR PREVENT CLEANING OF THE FLOORS, WALLS, OR CEILINGS. EXPOSED HORIZONTAL LINES MAY NOT BE INSTALLED ON THE FLOOR. PROVIDE ANY STAND-OFFS AS REQUIRED PER HEALTH DEPARTMENT. RUN LINES TIGHT AND CONCEALED UNDER BAR/EQUIPMENT, OR IN HALF WALL AS REQUIRED.

- KEY NOTES FOR SHEET P4
- 1 INTERCEPT/CONNECT TO EXISTING 3/4" (MIN.) CW MAIN FOR TENANT (ABOVE CEILING/IN FLOOR/IN WALL OR AS REQUIRED) BEFORE ANY FIXTURE BRANCH AND ROUTE MAIN TO NEW RPZ. VERIFY INTERCEPT LOCATION. PROVIDE PROPER LABELING DO NOT TAP BEFORE RPZ EVERY 5'-0".
  - 2 PROVIDE TMV AT SINK/LAV FOR CW AND/OR 110 DEG. F (MAX) LTHW TO FAUCET. LOCATE TMV (NOT SHOWN) IN A PROPER MAINTENANCE ACCESSIBLE AREA BELOW FIXTURE, OR AS REQUIRED.
  - 3 NOT USED.
  - 4 NOT USED.
  - 5 RE-SUPPLY HTHW/CW TO EXISTING CAN WASH AFTER NEW RPZ. RE-PIPE IF REQUIRED.

NOTE:  
PROPERLY PROTECT/INSULATE ALL PIPING IN UNCONDITIONED AREAS. VERIFY ROUTING OF WATER LINES W/ARCH. ALL LINES, VALVES, OR ETC. SHOWN FOR CLARITY. VERIFY LOCATIONS OF ALL COMPONENTS. COORDINATE WITH ALL TRADES. (TYP)

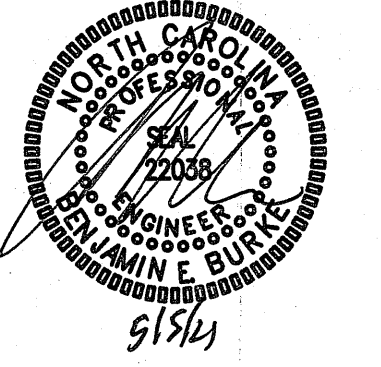


1 WATER PLAN  
SCALE: 1/4" = 1'-0"



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ANGIER, NORTH CAROLINA  
PROJECT NO.  
2006r  
DRAWING TITLE  
WATER PLAN

**P4**

PLOT DATE 12/21/2020  
PLAN REVISIONS 5/04/2021

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( VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN )

ITEM QUAN		DESCRIPTION	UTILITY CONNECTIONS				ITEM QUAN	DESCRIPTION	UTILITY CONNECTIONS				
WASTE	HW		CW	GAS (BTUH)	WASTE	HW			CW	GAS (BTUH)			
1	1	ICE MACHINE W/ BIN	1/2"	3/4"	-	1/2"	*						
2	1	1-DOOR WORKTOP REFRIGERATOR											
3	1	MILLWORK BACK COUNTERTOP											
4	1	MARGARITA MACHINE											
5	1	SOLED DISH RACK STORAGE	1-3/8"	-	-	-	-						
6	1	DEEP WELL GLASS FROSTER											
7	LOT	WALLMOUNT CLEAN GLASS SHELVING											
8	1	POINT OF SALE											
9	1	BAR REFRIGERATION											
10	1	S/S 24" ICE WELL W/ COLD PLATE	1-1/2"	-	-	-	-						
11	1	S/S BAR DUMP SINK	1-1/2"	1/2"	1/2"								
12	1	S/S BAR HAND SINK	1-1/2"	1/2"	1/2"								
13	1	PASS-THRU SHELF											
14	1	MILLWORK COUNTERTOP W/ BASE CABINETS											
15	1	CLEAN GLASS RACK STORAGE UNIT	1"	-	-	-	-						
16	2	TEA BREWER / DRN				1/4"	*						
17	1	COFFEE BREWER				1/4"	*						
18	1	SODA DISPENSER W/ ICE MACHINE	3/4"	-	-	3/8"	*						
19	1	S/S DROP-IN HAND SINK W/ SPLASHGUARDS	1-1/2"	1/2"	1/2"								
20	1	BAG-IN-BOX UNIT W/ CABONATOR											
22	1	REFRIGERATED PREP TABLE											
23	1	CARBON DIOXIDE TANK											
24	1	FILLER TABLE W/SHELF											
25	1	S-WELL HOT HOLDING TABLE	1"	-	-	-	25,000						
26	1	60" REFRIGERATED PREP TABLE											
27	1	CHIP WARMER											
28	1	1-DOOR UNDERCOUNTER REFRIGERATOR											
29	2	S/S 16" X 36" WALLMOUNT SHELF											
30	1	S/S 16" X 60" WALLMOUNT SHELF											
31	1	S/S PASS-THRU SHELF											
32	1	S/S 16FT EXHAUST HOOD W/ 1FT LH FIRE CABINET											
33a	1	48" FLAT GRIDDLE (GAS)	-	-	-	-	120,000						
33b	1	12" RADIANT GRILL (GAS)	-	-	-	-	30,000						
34	1	60" REFRIGERATED CHEF BASE											
35	1	STOCK POT BURNER (GAS)					90,000						
36	1	36" WALLMOUNT BROILER (GAS)					40,000						
37	1	6-BURNER RANGE & OVEN (GAS)					227,000						
38	1	DEEP FRYER (GAS)					115,000						
39	1	1-DOOR WORKTOP FREEZER											
40	1	SPLASHGUARD											
41	1	DEEP FRYER (GAS)					150,000						
42	1	HIGH TEMP DISHMACHINE W/VAPOR VENT	2"	1/2"	3/8"	*							
43	1	S/S 48" CLEAN DISHTABLE											
44	2	S/S WALLMOUNT BACK STORAGE											
45	1	SOLED DISHTABLE W/PRE-RINSE SINK	1-1/2"	1/2"	1/2"	*							
46	1	S/S SHIMING RACK											
47	2	S/S WALLMOUNT HAND SINK W/ SPLASHGUARDS	1-1/2"	1/2"	1/2"								
48	1	S/S FREEZING SHELVING UNIT											
49	3	S/S PREP SINK	1-1/2"	1/2"	1/2"								
50	1	S/S 18" X 60" WALLMOUNT SHELF											
51	1	S/S 12" X 84" WALLMOUNT SHELF											
52	1	S/S 3-COMPARTMENT SINK	1-1/2"	1/2"	1/2"								
53	1	S/S 18" X 72" BACKMOUNT SHELF W/ PORTLAND											
54	1	2-DOOR REACH-IN REFRIGERATOR											
55	1	EXTERIOR MOUNT FLY FAN											
56	1	WATER HEATER IN EXTERIOR ENCLOSURE	1"	1-1/2"	1-1/2"		199,900						
57	1	EXTERIOR WALK-IN COOLER / FREEZER COMBO											
58	LOT	WALK-IN SHELVING											
59	1	CAN WASH IN EXTERIOR ENCLOSURE (EXISTING)	(EXSTO)	1/2"	1/2"								
60	1	EXTERIOR STEP-IN KEG COOLER											
61	1	DRAFT BEER TOWER W/SPILL/RINSE DRIP TRAY	3/4"	-	-	1/2"	*						
62	1	DRAFT BEER REF. LINE GLYCOL CHILLER											
63	1	WROGGEN GENERATOR W/FAN											
64	1	48" WORKTOP REFRIGERATOR											
65	1	HOT HOLDING CABINET											
66	LOT	TRASH RECEPTACLE											

\* PROVIDE BACKFLOW PREVENTER PER NCSCB-PLUMBING SECT. 608.3 (EX: ASSE 1024 (WATTS SERIES 7 OR EQUAL), ASSE 1022 (WATTS SERIES SD-3 OR EQUAL), ETC.), WHERE REQUIRED IF NOT AN INTEGRAL PART OF THE EQUIPMENT.

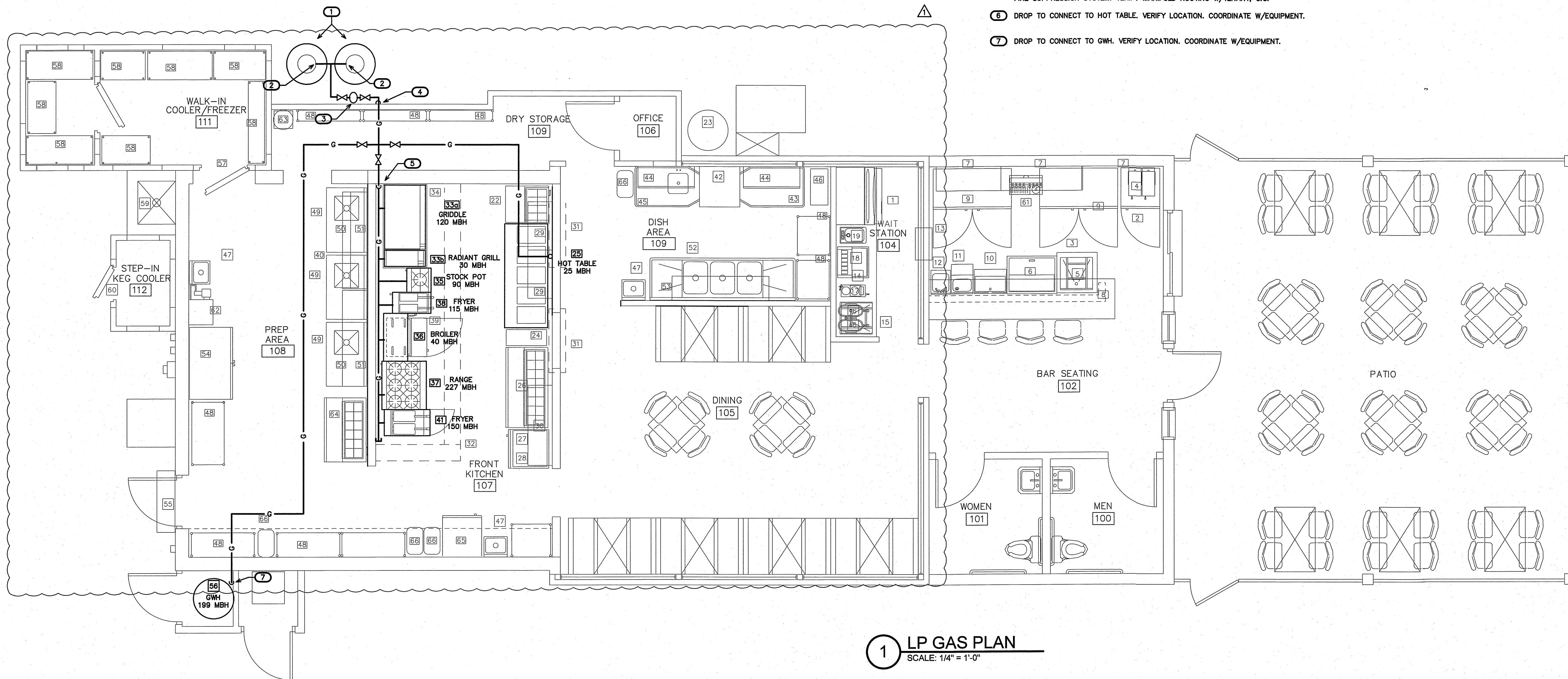
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NOTE:  
LP GAS LINES MAY NOT BE UNNECESSARILY EXPOSED. EXPOSED LINES SHALL BE INSTALLED SO THEY DO NOT OBSTRUCT OR PREVENT CLEANING OF THE FLOORS, WALLS, OR CEILING. EXPOSED HORIZONTAL LINES MAY NOT BE INSTALLED ON THE FLOOR. PROVIDE ANY STAND-OFFS AS REQUIRED PER HEALTH DEPARTMENT. RUN LINES TIGHT AND CONCEALED UNDER ALL EQUIPMENT, OR TIGHT TO IN WALLS AS REQUIRED. ALL SHUT-OFF VALVES, HOOD FIRE SUPPRESSION VALVES, AND REGULATORS MUST BE ACCESSIBLE. PAINT ANY INTERIOR OR EXTERIOR EXPOSED GAS LINES PER CODE AND BUILDING STANDARD. PROVIDE PROPER STAND-OFFS/SUPPORTS FOR GAS LINES ON ROOF/EXTERIOR WALLS, BELOW ROOF, ETC. PROPERLY SEAL ROOF/EXT. WALL PENETRATIONS SO AS NOT TO VOID ANY EXISTING WARRANTIES. PROVIDE AUTO SHUT-OFF VALVE FOR HOOD FIRE SUPPRESSION SYSTEM. PROVIDE PROPER CARBON MONOXIDE DETECTOR(S) IF/AS REQUIRED.

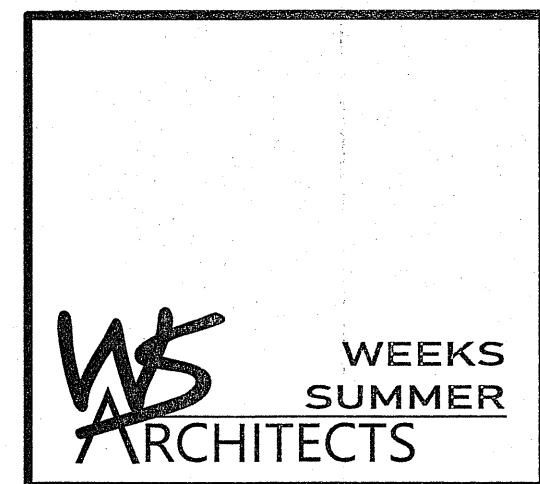
HOOD SYSTEM CONTROL AUTOMAN TO BE MOUNTED FLUSH TO CEILING GRID. PULL STATION CONDUITS TO BE MOUNTED ABOVE CEILING AND INSIDE WALL TO PULL STATION. RUN HOOD MANIFOLD ABOVE FLOOR. PROVIDE STAINLESS STEEL SHROUD OVER MANIFOLD IF REQUIRED BY AHJ.

KEY NOTES FOR SHEET P5

- RELOCATE EXISTING LP TANKS AS REQUIRED. VERIFY LOCATION, COORDINATE WITH TENANT/BUILDING OWNER. MAINTAIN PROPER CLEARANCES PER NFPA 58 PER SIZE OF TANK- MIN. DISTANCE FROM BUILDING, WINDOWS, ANY IGNITION SOURCE, ETC. VERIFY TANK SIZE W/OWNER, SUPPLIER. COORDINATE WITH G.C. FOR PROVIDING GUARD BOLLARDS FOR TANK(S) AND REGULATOR/SERVICE LINE ON EXTERIOR OF BUILDING. VERIFY TANK QUANTITY. PROVIDE PROPER MANIFOLD LINE AS REQUIRED PER NUMBER OF TANKS IF MULTIPLE UNITS ARE UTILIZED. PROVIDE PROPER 1ST STAGE REGULATORS ON TANK CONNECTIONS.
- CONNECT TO FIRST STAGE GAS REGULATOR ON LP GAS TANK. ROUTE PIPING AS REQUIRED TO SECOND STAGE REGULATOR. VERIFY LOCATION, COORDINATE WITH BLDG. OWNER FOR PATH AND DISTANCE.
- PROVIDE SECOND STAGE REGULATOR ABOVE GRADE. VERIFY LOCATION, VERIFY REQUIRED BTUH CAPACITY, 10 PSI TO 11" W.C. PROVIDE GAS SHUT-OFF VALVE BEFORE PIPE ENTERS BUILDING.
- RISE TO RUN GAS LINE ABOVE CEILING. VERIFY LOCATION/ROUTING.
- DROP TO RUN MANIFOLD LINE A.F.F. BELOW HOOD. VERIFY LOCATION. PROVIDE ACCESSIBLE AUTO SHUT-OFF VALVE (NOT SHOWN), TIE IN TO EQUIPMENT HOOD FIRE SUPPRESSION SYSTEM. VERIFY MANIFOLD ROUTING W/TENANT, G.C.
- DROP TO CONNECT TO HOT TABLE. VERIFY LOCATION. COORDINATE W/EQUIPMENT.
- DROP TO CONNECT TO GWH. VERIFY LOCATION. COORDINATE W/EQUIPMENT.

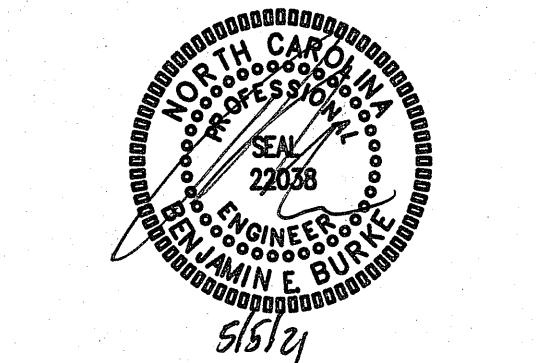


1 LP GAS PLAN  
SCALE: 1/4" = 1'-0"



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PROJECT TITLE  
**MI CUNCUN**  
115 S. RALEIGH ST.  
ANGIER, NORTH CAROLINA

PROJECT NO.  
**2006r**  
DRAWING TITLE  
**LP GAS PLAN**

**P5**

PLOT DATE 12/21/2020  
PLAN REVISIONS 5/04/2021

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( VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN )

**EQUIPMENT SCHEDULE**

ITEM	QUAN	DESCRIPTION	UTILITY CONNECTIONS				ITEM	QUAN	DESCRIPTION	UTILITY CONNECTIONS			
			WASTE	HW	CW	GAS (BTUH)				WASTE	HW	CW	GAS (BTUH)
1	1	ICE MACHINE W/ BIN	1/2", 3/4"	-	-	1/2" *	34	60" REFRIGERATED CHEF BASE	-	-	-	-	
2	1	1-DOOR WORKTOP REFRIGERATOR	-	-	-	-	35	STOCK POT BURNER (GAS)	-	-	-	90,000	
3	1	MILLWORK BACK COUNTERTOP	-	-	-	-	36	36" WALLMOUNT BROILER (GAS)	-	-	-	40,000	
4	1	MARGARITA MACHINE	-	-	-	-	37	6-BURNER RANGE & OVEN (GAS)	-	-	-	227,000	
5	1	SOILED DISH RACK STORAGE	1-3/8"	-	-	-	38	DEEP FRYER (GAS)	-	-	-	115,000	
6	1	DEEP WELL GLASS FROSTER	-	-	-	-	39	1-DOOR WORKTOP FREEZER	-	-	-	-	
7	LOT	WALLMOUNT CLEAN GLASS SHELVING	-	-	-	-	40	SPLASHGUARD	-	-	-	-	
8	1	POINT OF SALE	-	-	-	-	41	DEEP FRYER (GAS)	2"	1/2" *	3/8" *	150,000	
9	1	BAR REFRIGERATION	-	-	-	-	42	HIGH TEMP DISHWASHER W/VAPOR VENT	2"	1/2" *	3/8" *	-	
10	1	S/S 24" ICE WELL W/ COLD PLATE	1-1/2"	-	-	-	43	S/S 48" CLEAN DISHTABLE	-	-	-	-	
11	1	S/S BAR DUMP SINK	1-1/2"	1/2"	1/2"	-	44	S/S WALLMOUNT BACK STORAGE	-	-	-	-	
12	1	S/S BAR HAND SINK	1-1/2"	1/2"	1/2"	-	45	SOILED DISHTABLE W/PRE-RINSE SINK	1-1/2"	1/2" *	1/2" *	-	
13	1	PASS-THRU SHELF	-	-	-	-	46	S/S BARTH TRAC	-	-	-	-	
14	1	MILLWORK COUNTERTOP W/ BASE CABINETS	-	-	-	-	47	2 S/S WALLMOUNT HAND SINK W/ SPLASHGUARDS	1-1/2"	1/2"	1/2"	-	
15	1	CLEAN GLASS RACK STORAGE UNIT	1"	-	-	-	48	LOT B/S PREP/STAMING SHELVING UNIT	-	-	-	-	
16	2	TEA BREWER / URN	-	-	-	1/4" *	49	3 S/S PREP SINK	1-1/2"	1/2"	1/2"	-	
17	1	COFFEE BREWER	-	-	-	1/4" *	50	S/S 18" X 60" WALLMOUNT SHELF	-	-	-	-	
18	1	SODA DISPENSER W/ ICE MACHINE	3/4"	-	-	3/8" *	51	S/S 12" X 84" WALLMOUNT SHELF	-	-	-	-	
19	1	S/S DROP-IN HAND SINK W/ SPLASHGUARDS	1-1/2"	1/2"	1/2"	-	52	1 S/S 3-COMPARTMENT SINK	1-1/2"	1/2"	1/2"	-	
20	1	BAG-IN-BOX UNIT W/ CABONATOR	-	-	-	-	53	S/S 18" X 72" REFRIGERATED SHELF W/ POT/FRYER	-	-	-	-	
22	1	REFRIGERATED PREP TABLE	-	-	-	-	54	1 2-DOOR REACH-IN REFRIGERATOR	-	-	-	-	
23	1	CARBON DIOXIDE TANK	-	-	-	-	55	EXTERIOR MOUNT FLY FAN	-	-	-	-	
24	1	FILLER TABLE W/SHELF	-	-	-	-	56	1 WATER HEATER IN EXTERIOR ENCLOSURE	1"	1-1/2"	1-1/2"	199,900	
25	1	5-WELL HOT HOLDING TABLE	1"	-	-	25,000	57	EXTERIOR WALK-IN COOLER / FREEZER COMBO	-	-	-	-	
26	1	60" REFRIGERATED PREP TABLE	-	-	-	-	58	LOT WALK-IN SHELVING	-	-	-	-	
27	1	CHIP WARMER	-	-	-	-	59	1 CAN WASH IN EXTERIOR ENCLOSURE (EXISTG.)	(EXISTG.)	1/2"	1/2"	-	
28	1	1-DOOR UNDERCOUNTER REFRIGERATOR	-	-	-	-	60	EXTERIOR STEP-IN KEG COOLER	-	-	-	-	
29	2	S/S 16" X 36" WALLMOUNT SHELF	-	-	-	-	61	1 DRAFT BEER TOWER W/SPL/RINSE DRIP TRAY	3/4"	-	1/2" *	-	
30	1	S/S 16" X 60" WALLMOUNT SHELF	-	-	-	-	62	1 DRAFT BEER REF. LINE GLYCOL CHILLER	-	-	-	-	
31	1	S/S PASS-THRU SHELF	-	-	-	-	63	1 REFRIGERATED BEVERAGE W/ TANK	-	-	-	-	
32	1	S/S 16FT EXHAUST HOOD W/ 1FT LH FIRE CABINET	-	-	-	-	64	1 48" WORKTOP REFRIGERATOR	-	-	-	-	
33a	1	48" FLAT GRIDDLE (GAS)	-	-	-	120,000	65	1 HOT HOLDING CABINET	-	-	-	-	
33b	1	12" RADIANT GRILL (GAS)	-	-	-	30,000	66	LOT TRASH RECEPTACLE	-	-	-	-	

\* PROVIDE BACKFLOW PREVENTER PER NCSBC-PLUMBING SECT. 608.3 (EX: ASSE 1024 (WATTS SERIES 7 OR EQUAL), ASSE 1022 (WATTS SERIES SD-3 OR EQUAL), ETC.), WHERE REQUIRED IF NOT AN INTEGRAL PART OF THE EQUIPMENT.

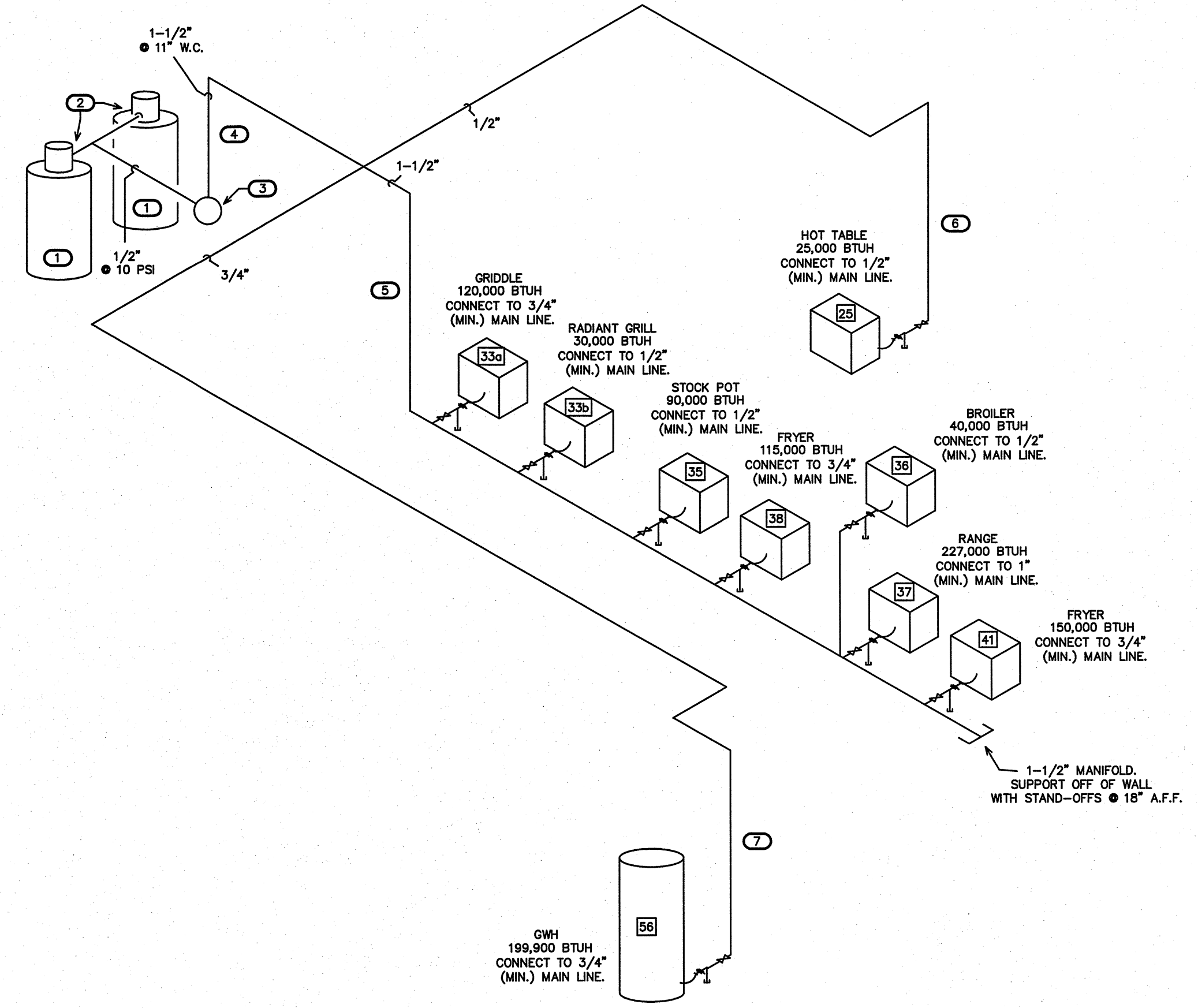
2018 NCSBC, FUEL GAS CODE- TABLE 402.4(25)  
NOTE:  
1ST STAGE PIPE SIZES BASED UPON AN INITIAL PRESSURE OF 10 PSI AND A PRESSURE DROP OF 1 PSI AT 20 FEET IN TOTAL LENGTH. PIPE SIZES SHOWN ARE NOMINAL INSIDE DIAMETER. TOTAL CONNECTED LOAD = 996,900 BTUH

2018 NCSBC, FUEL GAS CODE- TABLE 402.4(28)  
NOTE:  
2ND STAGE PIPE SIZES BASED UPON AN INITIAL PRESSURE OF 11" WC AND A PRESSURE DROP OF 1/2" WC AT 80 FEET IN TOTAL LENGTH. PIPE SIZES SHOWN ARE NOMINAL INSIDE DIAMETER. TOTAL CONNECTED LOAD = 996,900 BTUH

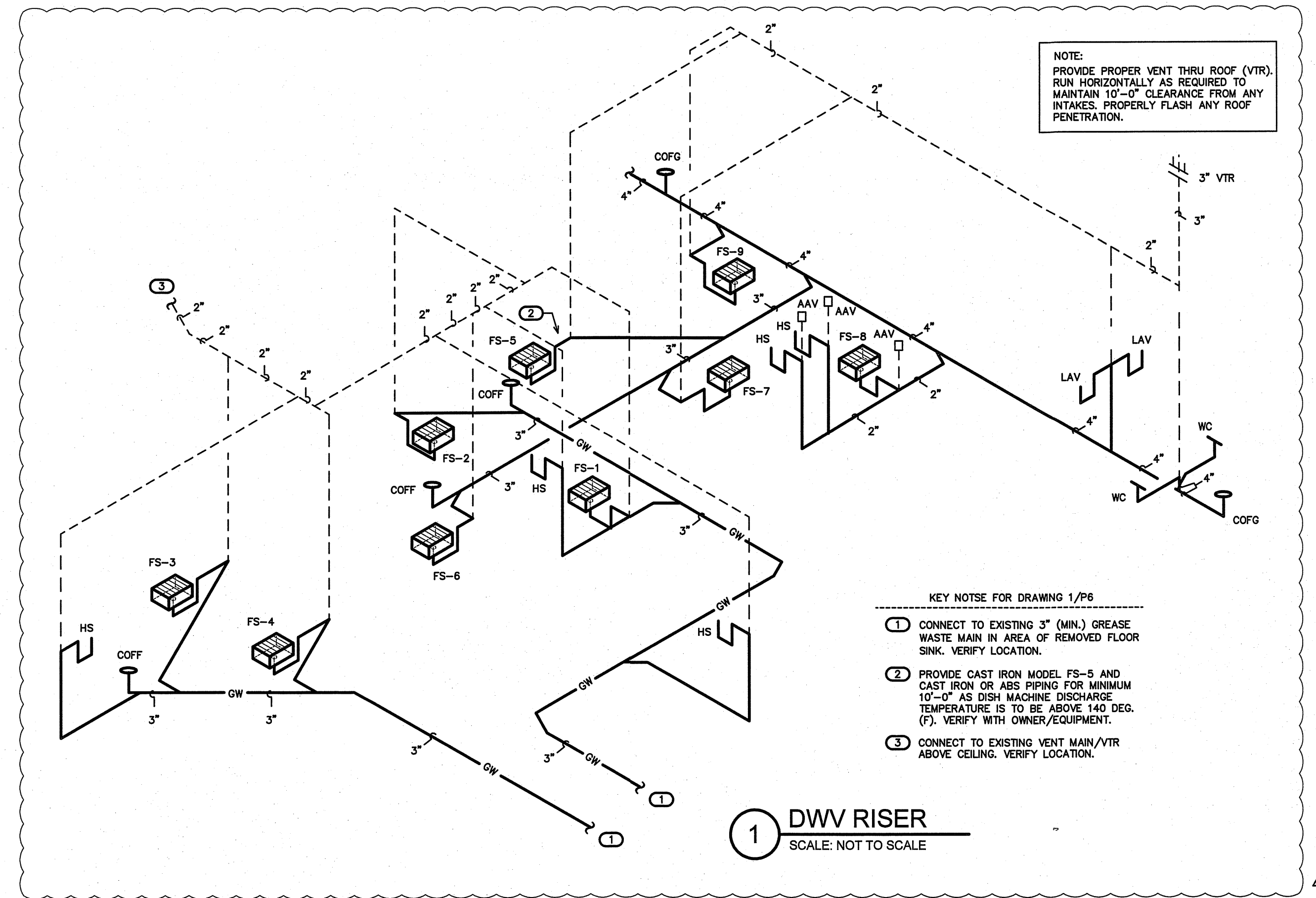
NOTE:  
GAS PIPING SHALL BE BLACK STEEL, SCHEDULE 40 PIPING WITH SCREWED OR WELDED FITTINGS. TEST AND INSTALL ALL PIPING PER THE NCSBC.

KEY NOTES FOR DRAWING 3/P6

- RELOCATE EXISTING LP TANKS AS REQUIRED. VERIFY LOCATION, COORDINATE WITH TENANT/BUILDING OWNER. MAINTAIN PROPER CLEARANCES PER NFPA 58 PER SIZE OF TANK - MIN. DISTANCE FROM BUILDING, WINDOWS, ANY IGNITION SOURCE, ETC. VERIFY TANK SIZE W/OWNER, SUPPLIER. COORDINATE WITH G.C. FOR PROVIDING GUARD BOLLARDS FOR TANK(S) AND REGULATOR/SERVICE LINE ON EXTERIOR OF BUILDING. VERIFY TANK QUANTITY, PROVIDE PROPER MANIFOLD LINE AS REQUIRED PER NUMBER OF TANKS IF MULTIPLE UNITS ARE UTILIZED. PROVIDE PROPER 1ST STAGE REGULATORS ON TANK CONNECTIONS.
- CONNECT TO FIRST STAGE GAS REGULATOR ON LP GAS TANK. ROUTE PIPING AS REQUIRED TO SECOND STAGE REGULATOR. VERIFY LOCATION, COORDINATE WITH BLDG. OWNER FOR PATH AND DISTANCE.
- PROVIDE SECOND STAGE REGULATOR ABOVE GRADE. VERIFY LOCATION, VERIFY REQUIRED BTUH CAPACITY, 10 PSI TO 11" W.C. PROVIDE GAS SHUT-OFF VALVE BEFORE PIPE ENTERS BUILDING.
- RISE TO RUN GAS LINE ABOVE CEILING. VERIFY LOCATION/ROUTING.
- DROP TO RUN MANIFOLD LINE A.F.F. BELOW HOOD. VERIFY LOCATION, PROVIDE ACCESSIBLE AUTO SHUT-OFF VALVE (NOT SHOWN). TIE IN TO EQUIPMENT HOOD FIRE SUPPRESSION SYSTEM. VERIFY MANIFOLD ROUTING W/TENANT, G.C.
- DROP TO CONNECT TO HOT TABLE. VERIFY LOCATION. COORDINATE W/EQUIPMENT.
- DROP TO CONNECT TO GWH. VERIFY LOCATION. COORDINATE W/EQUIPMENT.



**3 LP GAS RISER**  
SCALE: NOT TO SCALE

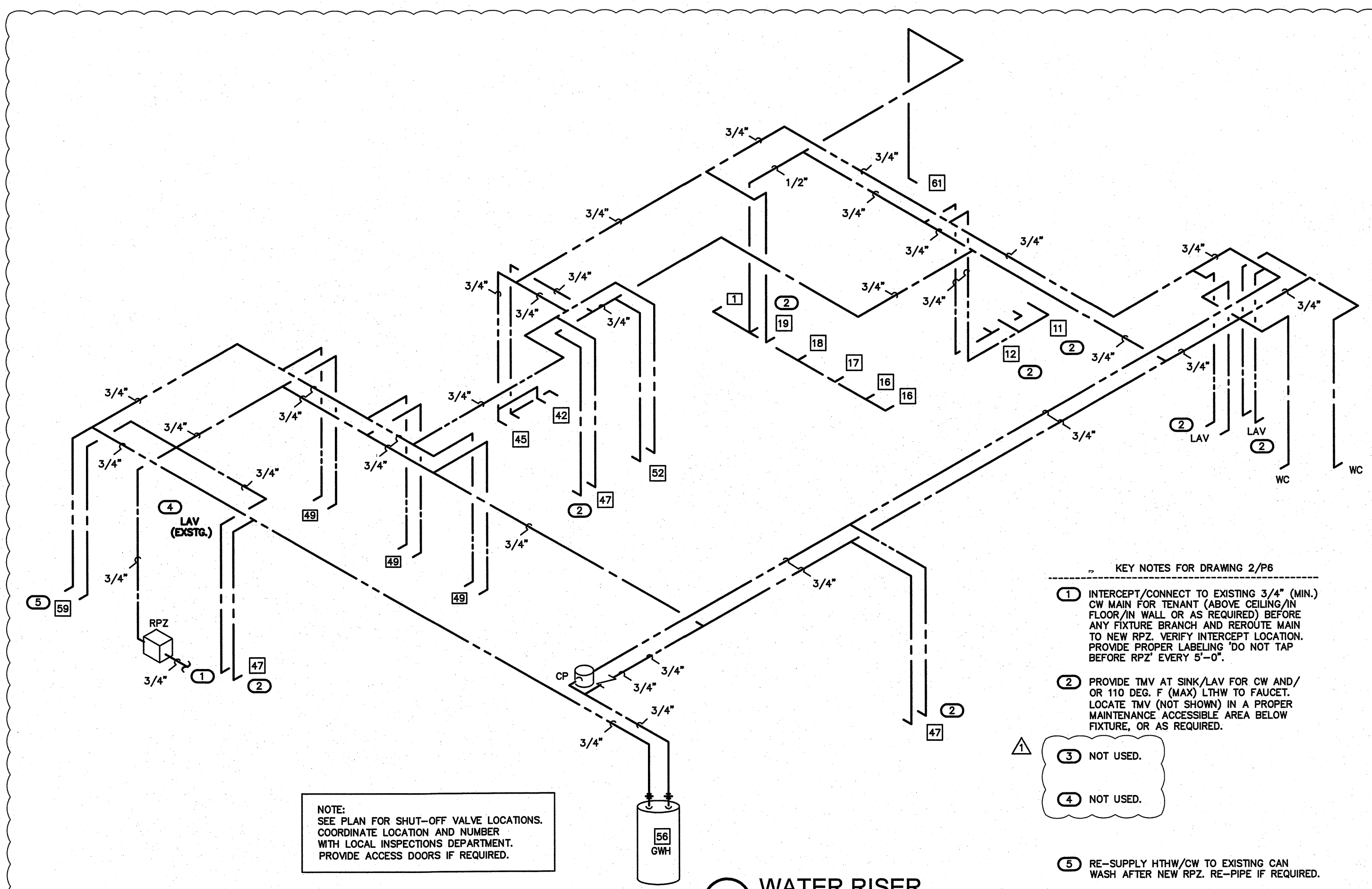


**1 DWV RISER**  
SCALE: NOT TO SCALE

( VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN )

FIXTURE TYPE	PIPE SIZING SCHEDULE			
	DRAIN	VENT	CW	HW
(HS)-HAND/BAR SINK	1-1/2"	1-1/4"	1/2"	1/2"
(FS-1 THRU 4) FLOOR SINK #1-5	3"	1 1/2"	-	-
(FS-5 THRU 8) FLOOR SINK #6-9	2"	1 1/4"	-	-
(LAV)-LAVATORY	1-1/2"	1-1/4"	1/2"	1/2"
(WC) FLUSH TANK WATER CLOSET	3"	1 1/2"	1/2"	-

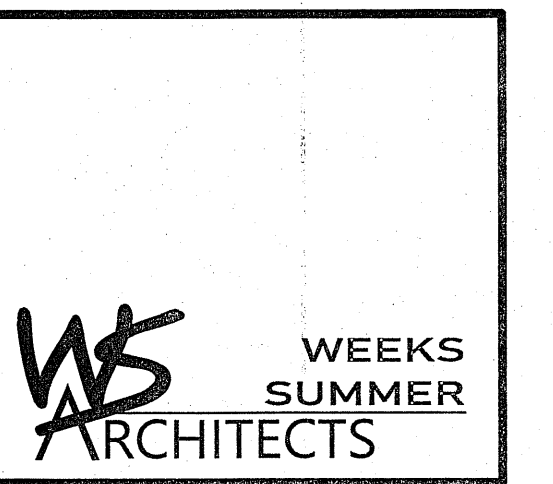
DWV/WATER RISER NOTES:  
REPRESENTATIVE SIZES ARE GIVEN FOR EACH TYPE OF FIXTURE. SEE EQUIPMENT OR PIPE SIZING SCHEDULE. MINIMUM 2" DRAIN LINE SIZE UNDER SLAB. MAINTAIN PIPE SIZES SHOWN LARGER SIZE IS REACHED. PIPE SIZES ARE MINIMUMS FOR INDIVIDUAL FIXTURES U.O.N.



**2 WATER RISER**  
SCALE: NOT TO SCALE

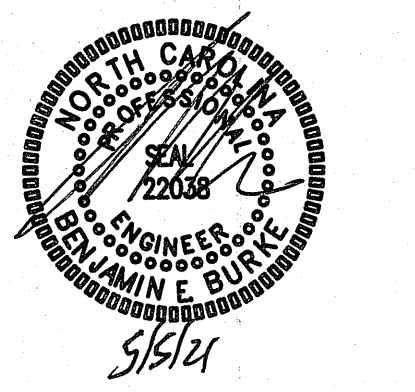
- KEY NOTES FOR DRAWING 2/P6
- INTERCEPT/CONNECT TO EXISTING 3/4" (MIN.) CW MAIN FOR TENANT (ABOVE CEILING/IN FLOOR/WALL OR AS REQUIRED) BEFORE ANY FIXTURE BRANCH AND PERUTE MAIN TO NEW RPZ. VERIFY INTERCEPT LOCATION. PROVIDE PROPER LABELING DO NOT TAP BEFORE RPZ EVERY 5'-0".
  - PROVIDE TMV AT SINK/LAV FOR CW AND/OR 110 DEG. F (MAX) LTHW TO FAUCET. LOCATE TMV (NOT SHOWN) IN A PROPER MAINTENANCE ACCESSIBLE AREA BELOW FIXTURE, OR AS REQUIRED.
  - NOT USED.
  - NOT USED.
  - RE-SUPPLY HTHW/CW TO EXISTING CAN WASH AFTER NEW RPZ. RE-PIPE IF REQUIRED.

NOTE:  
SEE PLAN FOR SHUT-OFF VALVE LOCATIONS. COORDINATE LOCATION AND NUMBER WITH LOCAL INSPECTIONS DEPARTMENT. PROVIDE ACCESS DOORS IF REQUIRED.



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